INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/001645

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.7 HO1L 33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L 33/00 H01S 5/00-5/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	JP 10-145002 A (Nichia Corporation) 1998.05.29, see whole document (No family)	1-17		
Y	US 6121634 A (Kabushiki Kaisha Toshiba) 2000.09.19, see whole document &JP 10-294532 A	1-17		
Y	JP 2003-133589 A (Mitsubishi Cable industries LTD) 2003.05.09, see abstract, claims, all figures (No family)	1-17		
Y	US 6121636 A (Sony Corporation) 2000.09.19, see abstract, claims, all figures &JP 10-308532	1–17		

"En	considered to be of particular relevance or earlier application or patent but published on or after the inter-		understand the principle of theory underlying the			
"L"	national filling date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
"O"	special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later		Y" document of particular relevance; the claimed invention car be considered to involve an inventive step when the document combined with one or more other such documents, a combination being obvious to a person skilled in the art			
	than the priority date claimed	"&"	document member of the same patent family			
Date	Date of the actual completion of the international search 27.04.2005		Date of mailing of the international search report 17. 5. 2005			
Nan	Name and mailing address of the ISA/JP		horized officer	2K	3013	
	Japan Patent Office		Furuta Atsuhiro		0010	
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